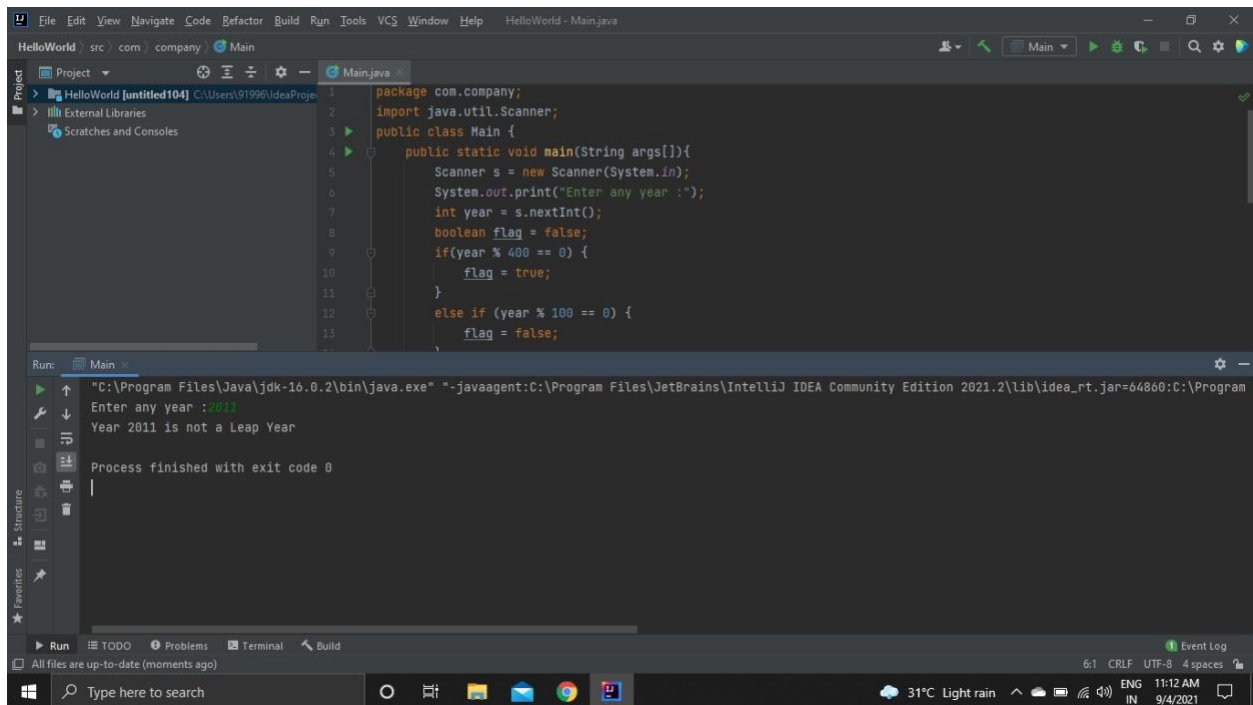
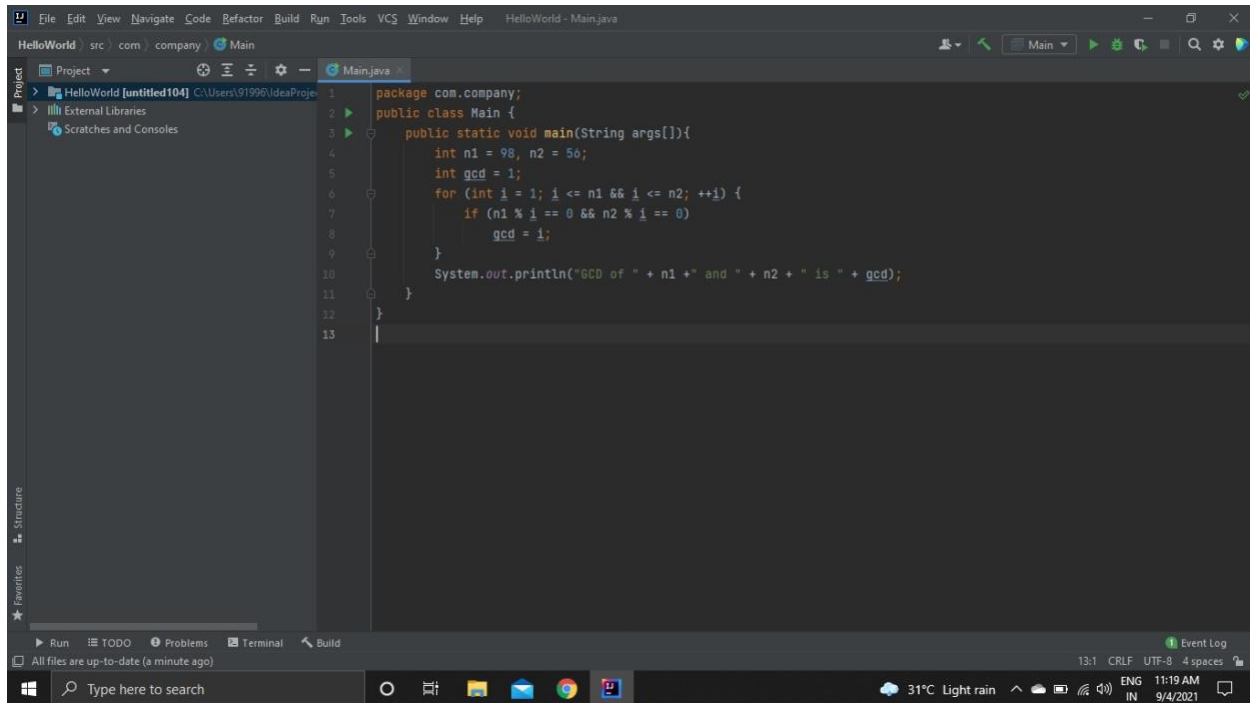


PROGRAM :



2) WRITE A PROGRAM TO FIND GCD OF TWO NUMBERS ?

PROGRAM :

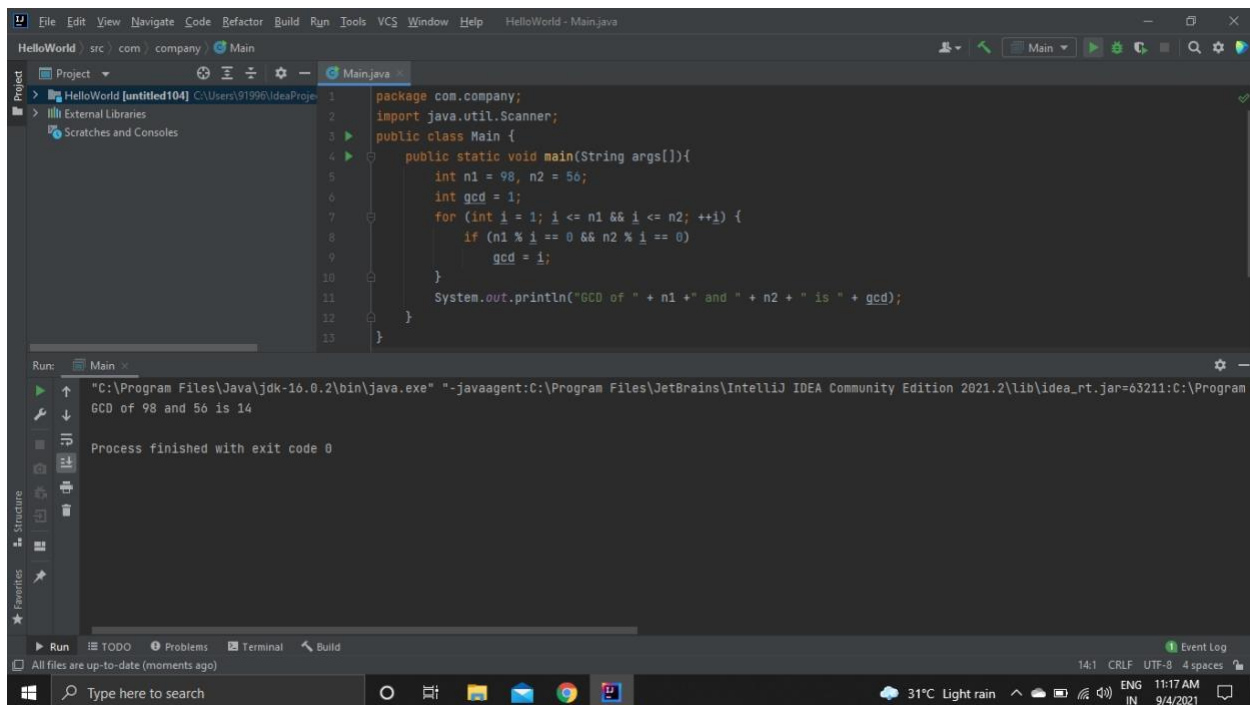


The screenshot shows the IntelliJ IDEA IDE with a project named 'HelloWorld'. The 'Main.java' file is open, displaying the following code:

```
1 package com.company;
2 public class Main {
3     public static void main(String args[]){
4         int n1 = 98, n2 = 56;
5         int gcd = 1;
6         for (int i = 1; i <= n1 && i <= n2; ++i) {
7             if (n1 % i == 0 && n2 % i == 0)
8                 gcd = i;
9         }
10        System.out.println("GCD of " + n1 + " and " + n2 + " is " + gcd);
11    }
12 }
13
```

The IDE interface includes a Project view on the left, a Run toolbar at the bottom, and a status bar at the bottom right showing the system clock and weather.

OUTPUT :

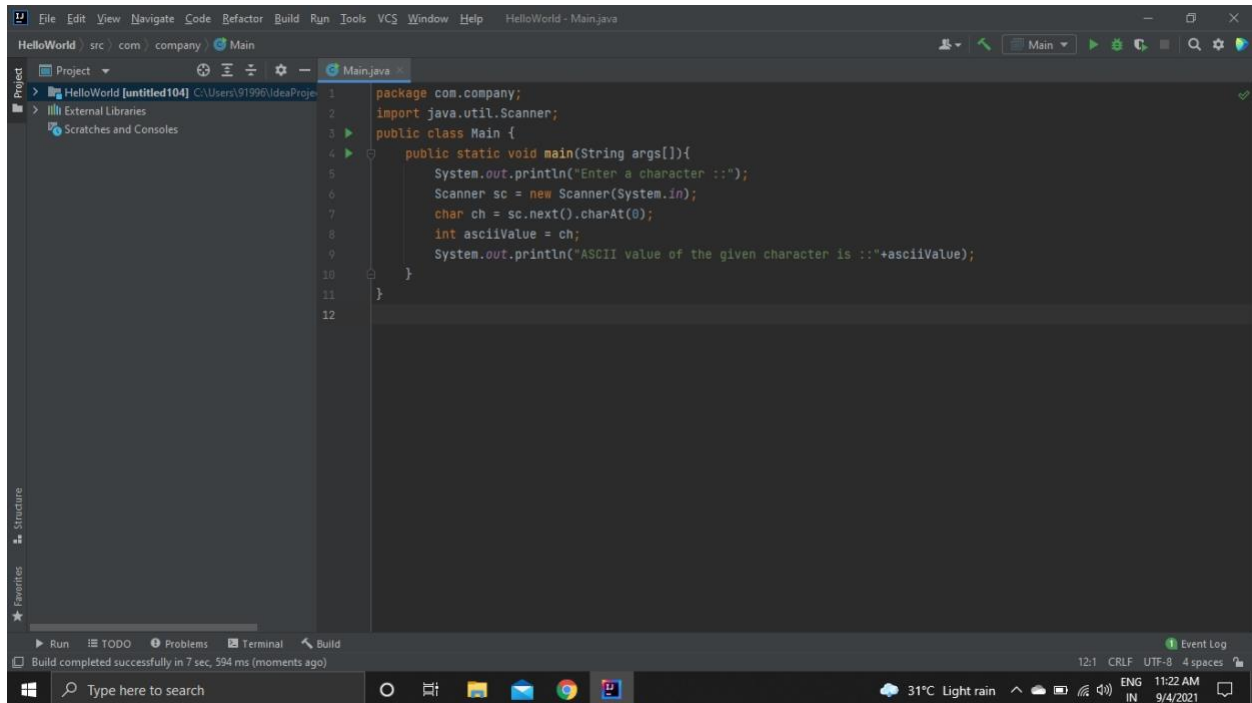


The screenshot shows the IntelliJ IDEA IDE with the same 'Main.java' file. The 'Run' button has been clicked, and the output is displayed in the 'Run' console at the bottom. The output shows the command used to run the program and the result:

```
Run: Main
"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea_rt.jar=63211:C:\Program
GCD of 98 and 56 is 14
Process finished with exit code 0
```

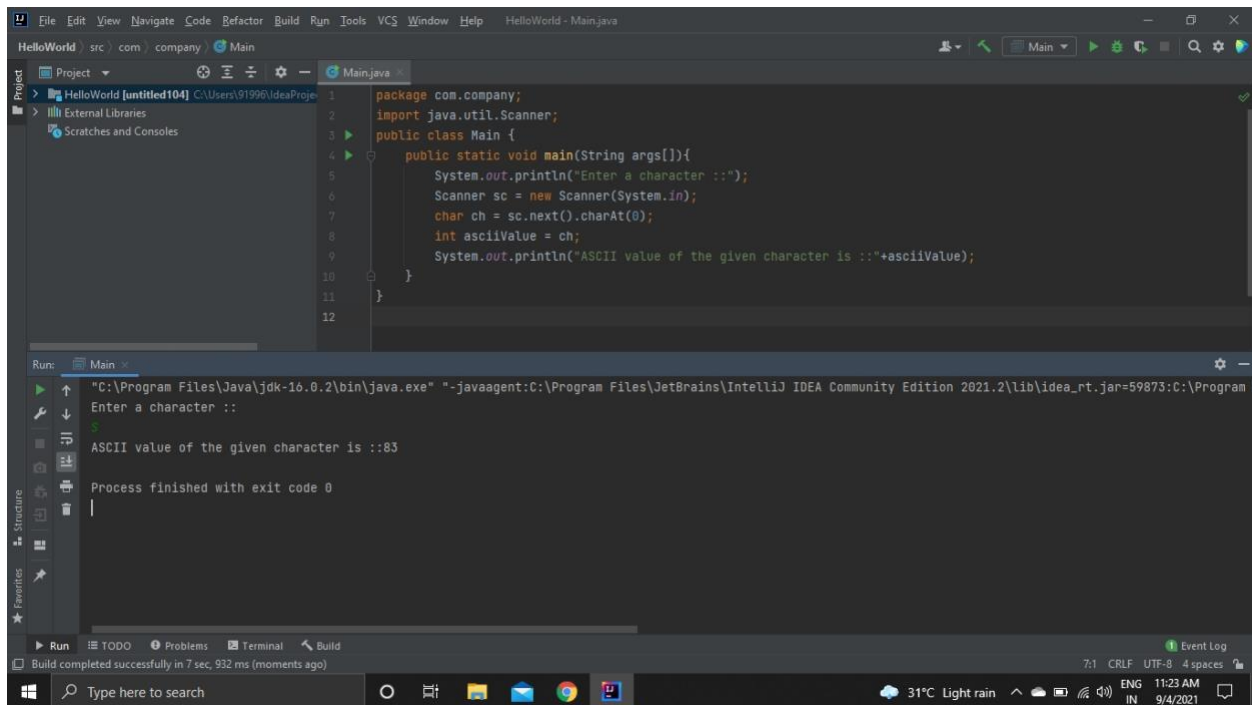
The IDE interface is the same as in the previous screenshot, but the 'Run' console is now active, showing the execution results.

3) WRITE A PROGRAM TO PRINT ASCII VALUE FOR A GIVEN CHARACTER GET THE CHARACTER FROM USER ? PROGRAM :



```
1 package com.company;
2 import java.util.Scanner;
3 public class Main {
4     public static void main(String args[]){
5         System.out.println("Enter a character ::");
6         Scanner sc = new Scanner(System.in);
7         char ch = sc.next().charAt(0);
8         int asciiValue = ch;
9         System.out.println("ASCII value of the given character is ::"+asciiValue);
10    }
11 }
12
```

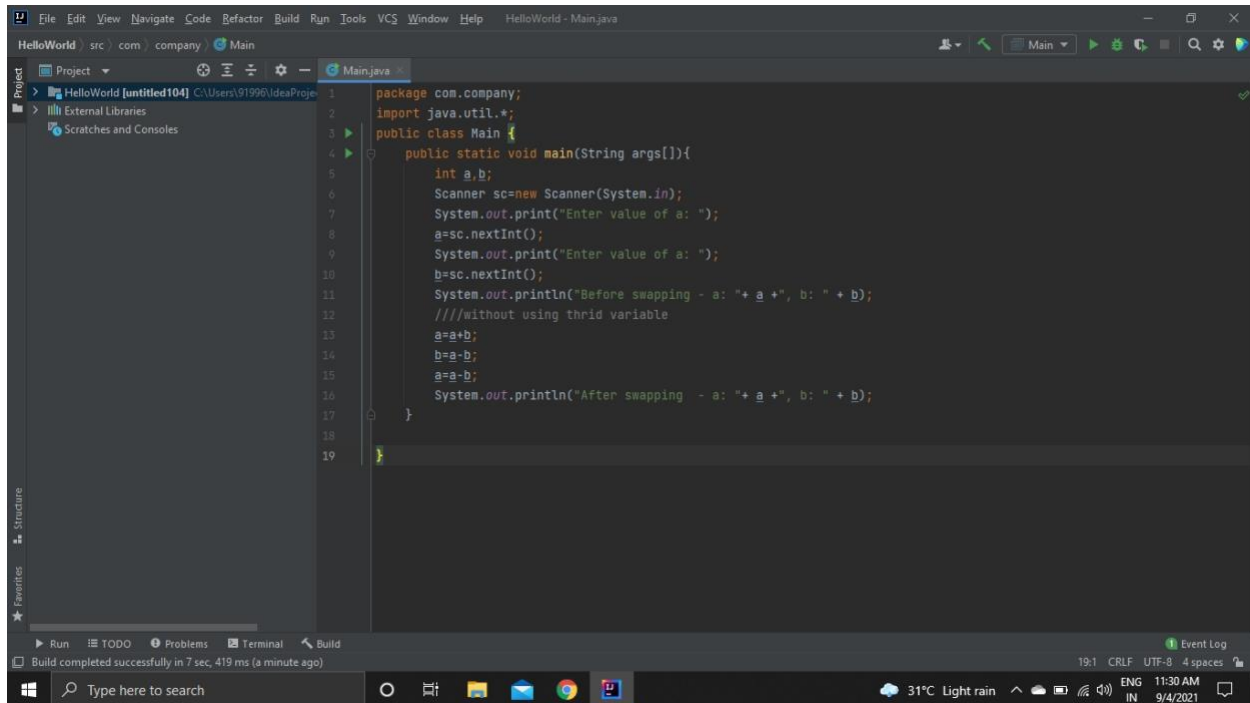
OUTPUT :



```
Run: Main
"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea_rt.jar=59873:C:\Program Files\Java\jdk-16.0.2\bin" -Didea.config.path=C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\config Enter a character ::
s
ASCII value of the given character is ::83
Process finished with exit code 0
```

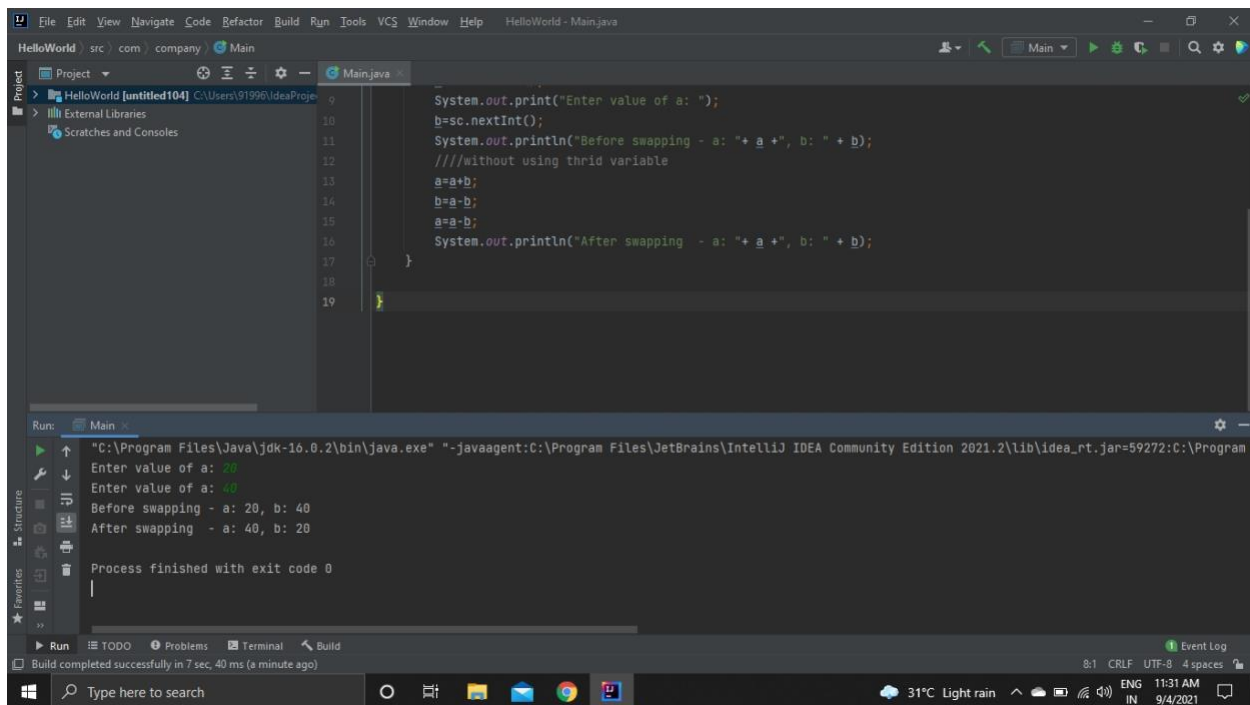
4) PROGRAM TO SWAP TWO VARIABLE WITHOUT USING THIRD VARIABLE ?

PROGRAM :



```
1 package com.company;
2 import java.util.*;
3 public class Main {
4     public static void main(String args[]){
5         int a,b;
6         Scanner sc=new Scanner(System.in);
7         System.out.print("Enter value of a: ");
8         a=sc.nextInt();
9         System.out.print("Enter value of a: ");
10        b=sc.nextInt();
11        System.out.println("Before swapping - a: "+ a +", b: " + b);
12        ///without using thrid variable
13        a=a+b;
14        b=a-b;
15        a=a-b;
16        System.out.println("After swapping - a: "+ a +", b: " + b);
17    }
18 }
19 }
```

OUTPUT :



```
9 System.out.print("Enter value of a: ");
10 b=sc.nextInt();
11 System.out.println("Before swapping - a: "+ a +", b: " + b);
12 ///without using thrid variable
13 a=a+b;
14 b=a-b;
15 a=a-b;
16 System.out.println("After swapping - a: "+ a +", b: " + b);
17 }
18 }
19 }
```

Run: Main

```
"C:\Program Files\Java\jdk-10.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea_rt.jar=59272:C:\Program
Enter value of a: 20
Enter value of a: 40
Before swapping - a: 20, b: 40
After swapping - a: 40, b: 20

Process finished with exit code 0
```